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1	Application No.	Applicant(s)	\bigcap
	09/848,397	DING ET AL.	~~
Notice of Allowability	Examiner	Art Unit	
•	Dah-Wei D. Yuan	1745	
The MAILING DATE f this communication appears on the cover sheet with the correspondenc address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>11/18/03</u> .			
2. The allowed claim(s) is/are 25 and 27-29.			
3. The drawings filed on <u>03 May 2001</u> are accepted by the Examiner.			
 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ AII b) ☐ Some* c) ☐ None of the: 			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.			
(a) The translation of the foreign language provisional application has been received.			
6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE			
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No			
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.			
(c) ☐ including changes required by the proposed drawing correction med, while the proposed drawing correction med			
(c) Including changes required by the attached Examiner 37 mentioner 35 miles of in the office detect of 7 aporton.			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).			
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)			
1☐ Notice of References Cited (PTO-892)	5 ─ Notice of Informal Pa	tent Application (PTO	-152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6∐ Interview Summary (PTO-413), Paper No.	·
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	B), 7⊠ Examiner's Amendm	ent/Comment	
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemer 9□ Other .	nt of Reasons for Allov	vance
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Art Unit: 1745

FUEL CELL POWER PLANT WITH ELECTROCHEMICAL ENHANCED CARBON MONOXIDE REMOVAL

Examiner: Yuan

S.N. 09/848,397

Art Unit: 1745

December 3, 2003

Detailed Action

1. The Applicant's amendment filed on November 18, 2003 was received. Claims 1-24 were cancelled.

2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action mailed on February 3, 2003.

Examiner's Amendment

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Mr. Randy Tung on December 3, 2003. The application has been amended as follows:

 Cancel claim 26.

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Claim Rejections

5. The claim rejections under 35 U.S.C. 112, first paragraph, on claims 1,4,10,12,20,26 are withdrawn because the claims have been canceled. The claim rejections under 35 U.S.C. 103(a) as obvious over Rehg et al. and Vayenas on claims 1,10,12 are withdrawn because the claims have been canceled. The claim rejections under 35 U.S.C. 103(a) as obvious over Rehg et al. and Yentekakis et al. on claims 1,4,10,12 are withdrawn because the claims have been canceled.

Reasons for Allowance

6. Claims 25,27-29 are allowed. The invention of independent claim 25 recites a fuel cell system comprising a source of hydrogen fuel, and a CO removal system using non-Faradaic electrochemical modification of catalyst activity, where the catalyst is selected from the group consisting of Cu/ZnO, Cu/CuO, ABO₃ (perovskite) and zeolite. The closest prior arts of record, Vayenas and Yentekakis, do not teach or suggest the use of the aforementioned catalysts in the CO removal system of a fuel cell system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (703) 308-0766. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (703) 308-2383. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Dah-Wei D. Yuan December 3, 2003

Patrick Ryan
Supervisory Patent Examiner
Technology Center 1700